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She attended to the packing, transfer and exhibit of a large and very valuable series of shell heap material collected by Mr. Clarence B. Moore on his early explorations in Florida, which was originally presented to the Wagner Free Institute of Science, but which through a generous donation, the Academy was enabled to secure for arrangement with the rest of the Clarence B. Moore collection.

Owing to the coal regulations and other hindrances, Mr. Moore's usual autumn expedition in the southern states was prevented, while his spring exploration in Florida was not very productive, owing to the country visited having been so thoroughly covered by his previous investigations.

WITMER STONE, *Chairman.*

REPORT OF THE CURATOR OF THE WILLIAM S. VAUX COLLECTIONS,
DECEMBER 1, 1919.

During the past year, the offices of the William S. Vaux Collections have been removed to the northwest corner of the building, where, with ample space, it is hoped to develop an adequate mineralogical laboratory.

All accessions to date, have been incorporated in the collection, after being catalogued and labelled by Mr. Samuel G. Gordon, who has presented the choice of the specimens, thirty-four in all, secured in connection with his collecting trips over the season, including an unrivalled suite of Nesquehonite and other interesting minerals from Pennsylvania localities.

Other gifts were received from the following donors:

Thomas Harvey. Almandite, Columbite, Tourmaline, Beryl, Corundum.—Delaware Co., Penna.

E. S. Moore. Calcite.—Montana.

Bently R. Morrison. Caeoxenite, Apophyllite, Byssolite.—Lancaster County and Chester County, Penna.

Frederick Pierce. Columbite and Monazite.—Boothwyn, Penna.

Washington A. Roebling. Epidesmine.—Moore Station, N. J.

Frederick Oldach. Epidesmine.—Robeson, Penna.

Twelve specimens were purchased, of which one of the most important was crystallized orpiment from Japan.

Respectfully submitted,

F. J. KEELEY, *Curator, Wm. S. Vaux Collections.*

REPORTS OF THE SECTIONS.

THE BIOLOGICAL AND MICROSCOPICAL SECTION.—The Biological and Microscopical Section held nine stated meetings during the year.

Weekly excursions were made, except during July and August and the winter months, to various localities, for collecting purposes.

At the suggestion of Mr. H. F. Munro, a class in microscopic technique has been formed and now meets once a month for the purpose of giving instruction to non-members of the Section. The membership now numbers about twenty and is open to all applicants.

Communications on various subjects have been made by the following members of the Section: Messrs. T. Chalkley Palmer, Hugo Bilgram, B. F. Ray, Dr. Thomas Stewart, J. W. Palmer, John G. Rothermel, Walter Palmer, F. J. Keeley, H. F. Munro, W. H. Van Sickel and Charles S. Boyer.

The following donations to the Sections are reported:

From Miss Elizabeth S. Brown, the microscopic collection of Dr. Amos P. Brown, including a Queen Acme microscope, a Leitz mineralogical microscope, a Beck petrographical microscope, twenty-four objectives, a series of accessories and an object cabinet containing about twelve-hundred mounted objects.

From the Estate of Dr. Samuel G. Dixon, a mahogany object cabinet, with about two hundred and seventy-five slides of Bacteria.

The following have been elected officers for the year 1920:

<i>Director</i>	J. Cheston Morris, M. D.
<i>Vice-Director</i>	T. Chalkley Palmer
<i>Recorder</i>	Charles S. Boyer
<i>Corresponding Secretary</i>	Walter Palmer
<i>Treasurer</i>	Thomas S. Stewart, M. D.
<i>Conservator</i>	F. J. Keeley

CHARLES S. BOYER, *Recorder*.

ENTOMOLOGICAL SECTION.—The Section held the usual stated meetings during the year, with an average attendance of eleven persons. Wm. J. Coxey was elected a member and Robert L. Haines, a Contributor. Interesting communications were made by J. A. G. Rehn, Philip Laurent, J. H. West, J. C. Bradley, Henry Skinner, W. J. Chamberlain, P. P. Calvert, Morgan Hebard and J. J. Davis.

The following officers and committees were elected to serve for 1920:

<i>Director</i>	Philip Laurent
<i>Vice-Director</i>	R. C. Williams, Jr.
<i>Treasurer</i>	E. T. Cresson

<i>Conservator</i>	Henry Skinner, M. D., Sc. D.
<i>Secretary</i>	J. A. G. Rehn
<i>Recorder</i>	E. T. Cresson, Jr.
<i>Publication Committee</i>	E. T. Cresson, P. P. Calvert, Ph. D., E. T. Cresson, Jr.
	E. T. CRESSON, JR., <i>Recorder</i> .

BOTANICAL SECTION.—Officers to serve for the year 1920 were elected as follows:

<i>Director</i>	Joseph Crawford
<i>Vice-Director</i>	Alexander MacElwee
<i>Recorder</i>	John W. Eckfeldt, M. D.
<i>Treasurer</i>	Stewardson Brown
<i>Conservator</i>	Stewardson Brown

JOHN W. ECKFELDT, M. D., *Recorder*.

MINERALOGICAL AND GEOLOGICAL SECTION.—Owing to the serious illness of the Director, Mr. Benjamin Smith Lyman, no written report was received, but Mr. Frank J. Keeley, the Vice-Director, reported verbally that several meetings had been held, and in conjunction with the Biological and Microscopical Section, twenty-four field excursions had been given. The Officers of the Section are:

<i>Director</i>	Benjamin Smith Lyman.
<i>Vice-Director</i>	Frank J. Keeley
<i>Recorder and Secretary</i>	William B. Davis
<i>Treasurer</i>	Benjamin Smith Lyman
<i>Conservator</i>	George Vaux, Jr.

ORNITHOLOGICAL SECTION.—The Section has continued its function of encouraging ornithological activity at the Academy during the year. The Delaware Valley Ornithological Club has held regular meetings in the ornithological room and has been instrumental in bringing much material to the department and in interesting many persons in its development.

At the annual meeting of the Section the following officers were elected for the year 1920:

<i>Director</i>	Spencer Trotter, M. D.
<i>Vice-Director</i>	George Spencer Morris
<i>Recorder</i>	Stewardson Brown
<i>Secretary</i>	William A. Shryock
<i>Treasurer and Conservator</i>	Witmer Stone

WITMER STONE, *Conservator*.

The annual election of Officers, Councillors and members of the Committe on Accounts was held December 16th, with the following result:

PRESIDENT.....	John Cadwalader, A. M., LL.D.
VICE-PRESIDENTS.....	Edwin G. Conklin, Ph.D., Sc.D. Henry Skinner, M. D., Sc.D
RECORDING SECRETARY.....	Edward J. Nolan, M. D., Sc.D.
CORRESPONDING SECRETARY.....	J. Percy Moore, Ph.D.
TREASURER.....	George Vaux, Jr.
LIBRARIAN.....	Edward J. Nolan, M. D., Sc.D.
CURATORS.....	Witmer Stone, A. M., Sc. D. Henry A. Pilsbry, Sc. D. Henry Tucker, M. D. Spencer Trotter, M. D.
COUNCILLORS TO SERVE THREE	
YEARS.....	Edwin S. Dixon. Robert G. LeConte, M. D. George Spencer Morris. George L. Harrison, Jr.
COMMITTEE ON ACCOUNTS.....	Charles Morris. Samuel N. Rhoads. John G. Rothermel. Thomas S. Stewart, M. D. Walter Horstmann.

COUNCIL FOR 1920.

<i>Ex-Officio.</i> —John Cadwalader, A. M., LL. D., Edwin G. Conklin, Ph. D., Sc. D., Henry Skinner, M. D., Sc. D., Edward J. Nolan, M. D., Sc. D., J. Percy Moore, Ph. D., George Vaux, Jr., Henry A. Pilsbry, Sc. D., Witmer Stone, A. M., Sc. D., Henry Tucker, M. D., Spencer Trotter, M. D.
<i>To serve three years.</i> —Edwin S. Dixon, Robert G. LeConte, M. D., George Spencer Morris, George L. Harrison, Jr.
<i>To serve two years.</i> —Philip P. Calvert, Ph. D., Frank J. Keeley, Walter Horstmann, T. Chalkley Palmer.
<i>To serve one year.</i> —Charles B. Penrose, M. D., LL. D., Ph. D., Charles Morris, William E. Hughes, M. D., Roswell C. Williams, Jr.
COUNCILLOR.....George Vaux, Jr.

LIBRARY STAFF.

LIBRARIAN..... Edward J. Nolan.
ASSISTANT LIBRARIAN..... William J. Fox.

MUSEUM STAFF.

DEPARTMENT OF VERTEBRATE ZOOLOGY

Witmer Stone, Special Curator.
Henry W. Fowler, Assistant Curator (Reptiles and Fishes).
James A. G. Rehn, Assistant Curator (Mammals).

DEPARTMENT OF INVERTEBRATE ZOOLOGY (exclusive of Insects)

Henry A. Pilsbry, Special Curator.
Edward G. Vanatta, Assistant Curator.

DEPARTMENT OF INSECTS

Henry Skinner, Special Curator.
James A. G. Rehn, Assistant Curator.
Ezra T. Cresson, Jr., Assistant Curator.
Morgan Hebard, Research Associate.

DEPARTMENT OF BOTANY

Stewardson Brown, Assistant Curator (in charge).
Bayard Long, Research Associate.
Ada Allen, Aid.

DEPARTMENT OF MINERALOGY AND GEOLOGY

Frank J. Keeley, Curator of the William S. Vaux Collections.
Samuel G. Gordon, Aid (in charge of general collection).

DEPARTMENT OF ARCHEOLOGY

Harriet Newell Wardle, Aid (in charge).

ARTIST

Helen Winchester.

TAXIDERMIST

David McCadden.

STANDING COMMITTEES, 1920.

FINANCE.—Effingham B. Morris, John Cadwalader, A. M., LL. D.,
Edwin S. Dixon, Walter Horstmann, and the Treasurer.

PUBLICATION.—Henry Skinner, M. D., Sc. D., Witmer Stone, A. M.,
Sc. D., Henry A. Pilsbry, Sc. D., Edward J. Nolan, M. D., Sc. D.,
William J. Fox.

LIBRARY.—Henry Tucker, M. D., Frank J. Keeley, Witmer Stone,
A. M., Sc. D., Spencer Trotter, M. D., T. Chalkley Palmer.

INSTRUCTION AND LECTURES.—Henry Skinner, M. D., Henry A. Pilsbry, Sc. D., Charles Morris, James A. G. Rehn, George S. Morris.

ELECTIONS IN 1919.

MEMBERS.

February 18.—W. Judson Coxey.

April 15.—Edgar Fahs Smith.

November 18.—William H. Van Sickel, Walter Palmer, Hampton L. Carson, Anne Hinchman, Arthur Cope Emlen.

ADDITIONS TO THE MUSEUM

1919.

MAMMALS.

MISS M. C. BOOTH. Mole (*Scalopus aquaticus*). Haverford, Penna.

SAMUEL W. GREEN. Skull of Black Bear (*Ursus americanus*). Moscow, Pa.

RICHARD C. HARLON. Woodland Jumping Mouse (*Napaeozapus insignis*). Huntingdon County, Pennsylvania.

PURCHASED. New York Weasel (*Putorius noveboracensis*). State College, Pa.

DR. WITMER STONE. Fifty mammals. Chiricahua Mountains, Arizona.

ZOOLOGICAL SOCIETY OF PHILADELPHIA. Specimens prepared as follows: Mounted. Kinkajou (*Potos caudivolvulus*). Skin and Skeleton. Orang-utan (*Pongo pygmaeus*). Huanaco (*Lama glama*). Young male Sumatran Elephant (*Elephas maximus sumatranus*). Skin and skull, Warthog (*Phacochoerus africanus*). Pale Cebus (*Cebus flavescens*). Night Monkey (*Nyctipithecus trivirgatus*). Two Ocelots (*Felis pardalis*). Brazilian Ocelot (*Felis chibigouazou*). Jungle Cat (*Felis chaus*). Young Wild Horse (*Equus prejevalskii*). Two warthogs (*Phacochoerus africanus*), 2 male and female. Spring-bok (*Antidorcas euchore*). Red Kangaroo (*Macropus rufus*). Black-tailed Wallaby (*Macropus ualabatus*). Skeleton, Dromedary (*Camelus dromedarius*). Skull, Pigtailed Macaque (*Macaca nemestrina*). Raccoon-like Dog (*Canis procyonoides*).

BIRDS.

MRS. HOWARD GAMBLE. Rose-breasted Cockatoo (*Cacatoes roseicapilla*).

CHAS. G. HERMAN. Eighteen skins of birds. Nicaragua.

MRS. EMMA J. LEWIS. Egg of Sulphur-crested Cockatoo.

W. W. McCALL. Skin of Weaver Finch.

PURCHASED. 650 skins of Colombian birds.

DR. WITMER STONE. Two hundred and two birds and six sets of birds' eggs. Chiricahua Mountains, Arizona.

MRS. E. M. SWAINSON. Mounted Mourning Dove (*Zenadura macroura*). New York State.

MISS B. TOWN. Several bird skins. New Zealand and New Guinea.

DR. M. P. WARMUTH. Two cases of mounted birds.